





Existing Conditions: Estes Drive Extension to Carolina North Forest Boundary

- 15

**Opportunity:** Signs of overuse have severely eroded the creek corridor; however, providing a paved, delineated trail surface to users offers an environmental opportunity to limit trail braiding and discontinue erosion.
- 16

**Opportunity & Constraint** An existing foot trail connects Wild Oak Drive to the creek, and space will permit a trail on the south side for a short distance. Private property constraints and steep topography will make trail alignment a challenge both fiscally and environmentally.
- 17

**Opportunity & Constraint:** At the third major tributary crossing, the soil has been almost entirely washed away creating the need for a bridge condition which will be a cost constraint. Efforts to improve this area with a crossing will beautify the corridor, improve water quality by preventing more sediment to enter the stream at this location, and provide a safe crossing for all user groups.
- 18

**Opportunity & Constraint:** This easement connects up to Pathway Drive, a major neighborhood connecting Bolin Forest, Quarterpath Trace, Spring Valley, Webbwood, Fair Oaks, Cobblestone, and Cates Farm neighborhoods. Although conditions would permit a bridge, topography is a constraint and a larger crossing would need to span the creek.
- 19

**Constraint:** Another tributary crossing along the corridor lends itself to a larger bridge crossing. Permitting and cost constraints will limit opportunity.
- 20

**Opportunity:** MLK Park and other adjacent Town-owned lands provide the opportunity for trail spurs to connect to this park.
- 21

**Opportunity:** Existing trail head feature off of Seawell School Road encourage trail use and provide opportunity for network tie-in.
- 22

**Constraint:** Existing rip rap that crosses corridor tributary will require a bridge to sustain foot and bicycle traffic, presenting permit and cost constraints.
- 23

**Opportunity & Constraint:** Across the creek on the south side is another stretch of Spring Valley HOA property that is flat, open and appropriate for trail development. A large creek crossing and land owner consent present constraints.









Existing Conditions: Carolina North Forest Boundary - Creek Corridor

- 24

**Opportunity:** The Carolina North Forest is an excellent opportunity for open space and recreation that supports trail development, offering an experience for all user groups including on-and off-road bicycles, children, and people with accessibility challenges.
- 25

**Opportunity & Constraint:** The existing power easement is a popular recreational route for mountain bikers, runners, dogwalkers and hikers and has the potential to connect to the high school, middle and elementary schools.
- 26

**Opportunity:** Existing trail head feature provides access to Carolina North Forest to residents in Cates Farm; for proposed Bolin Creek trail, this is an existing access point.
- 27

**Opportunity & Constraint:** At Bolin Creek (at the end of the Tripp Farm access trail) is the opportunity to tie into the greenway. At the time of this planning effort, UNC was planning to install a bridge crossing at this location.
- 28

**Opportunity:** Visible signs of the multiple uses along the corridor are mountain bike tracks, animal tracks, and foot prints. These signs confirm the area’s popularity and indicate the need for a creekside trail.
- 29

**Opportunity & Constraint:** Crossing potential at this location is another opportunity to connect to Cates Farm neighborhood; however a bridge crossing will be required if trail is developed on east side of creek.
- 30

**Constraint:** Wetland areas along the corridor presents inundated conditions which will require raised boardwalk or alternative trail surfacing, constraining costs and permitting.
- 31

**Opportunity & Constraint:** Standing water, crusher run laid by OWASA, and over-use have severely degraded this portion of the corridor. Visible signs of trail furrows and trail braiding continue to widen the corridor, further impacting the usable surface. With appropriate trail surfacing and vegetative restoration, the opportunity exists to mitigate the erosion problems, improve wildlife habitat and enhance the trail user experience.
- 32

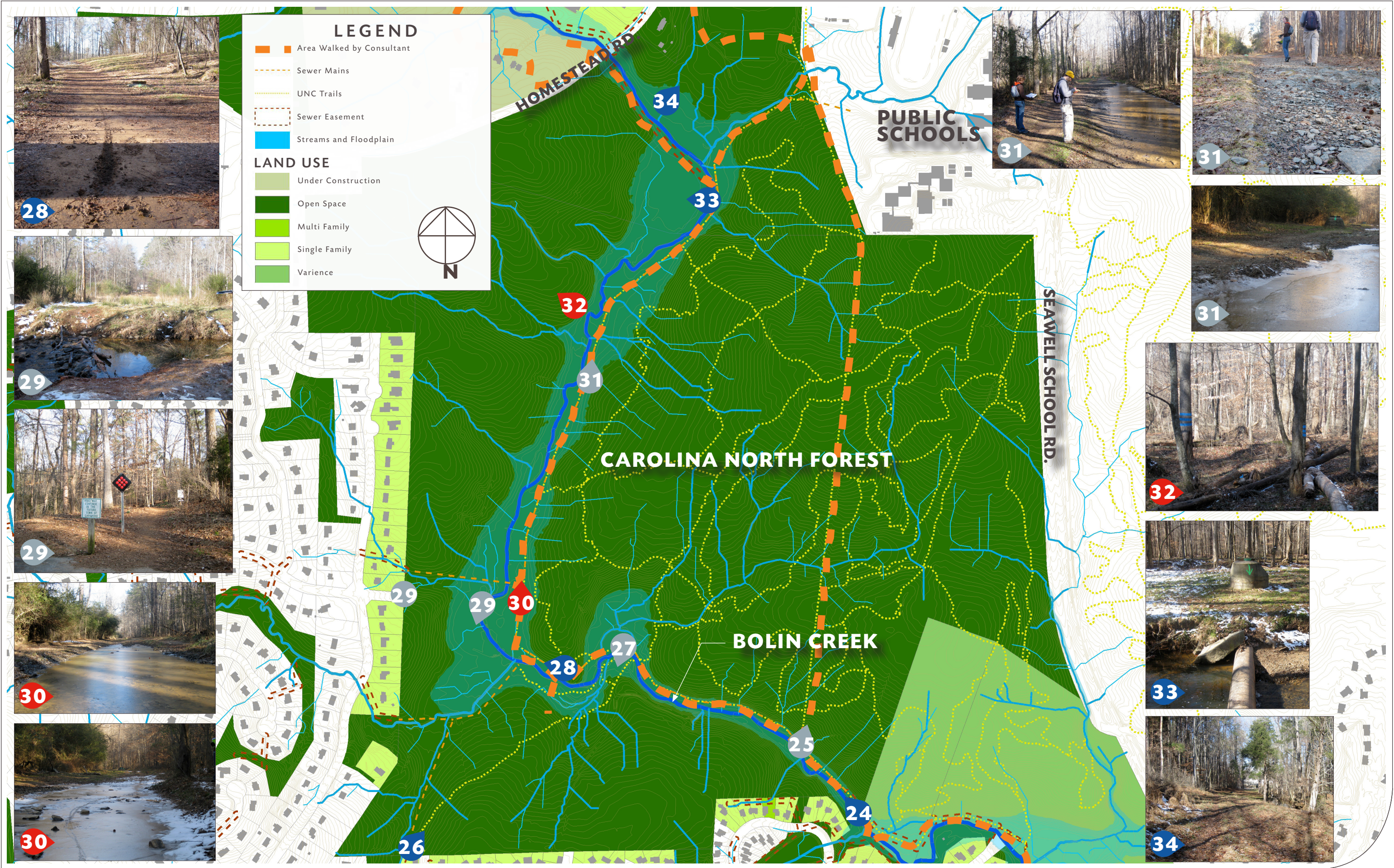
**Constraint:** Along the west side of Bolin Creek, stands of hardwood are present, not presenting a feasibility for trail development on the west side of the creek. Based on conversations with UNC, this location for trail development was not preferred.
- 33

**Opportunity:** Low water bridge opportunity exists at this location, which could tie future neighborhood development into trail.
- 34

**Opportunity:** Relatively flat conditions on the east side of Bolin Creek near Homestead Rd. create potential for sustainable trail development; hardwood trees dot the landscape offering a pleasant experience.









Existing Conditions: Carolina North Forest Boundary - Upland Corridor

- 35

**Opportunity:** Existing easement bends to the east to a kiosk and provides an upland route which connects ball fields and schools.
- 36

**Opportunity:** Existing pedestrian trails have been installed as well as an outdoor classroom, indicating the high use of this area. Greenway development could improve these conditions, offering an alternative transportation for children attending school at this location.
- 37

**Constraint:** Views down the power easement include transmission poles and straight-line conditions; compared to the creekside trail this alignment is less experiential.
- 38

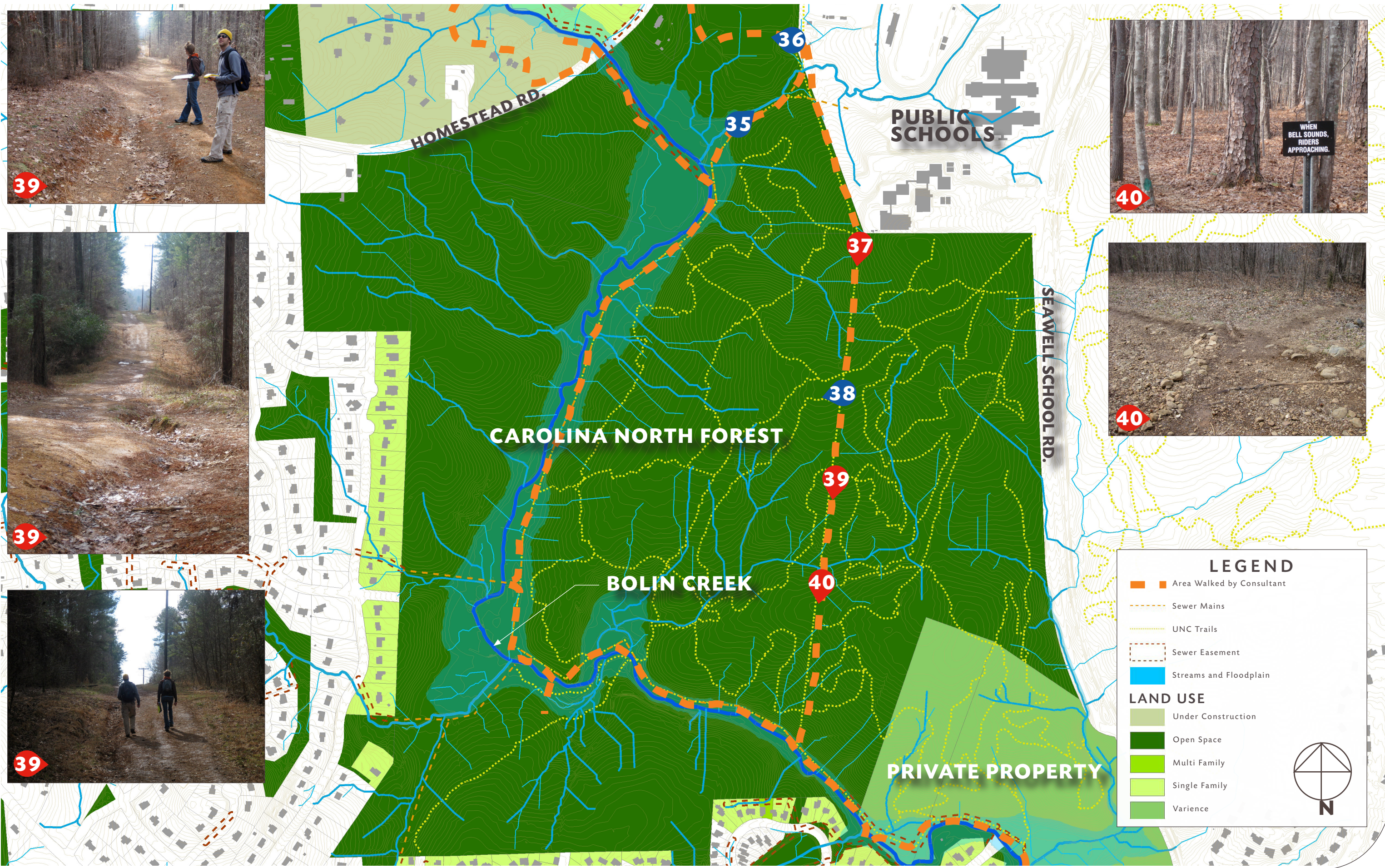
**Opportunity:** Wider trails throughout the upland portions of the Carolina North Forest property could potentially support multi-use trail development or trail spurs from a creekside alignment option.
- 39

**Constraint:** Cross cut slopes, overuse, steep conditions and drainage problems have created severe erosion concerns along the power easement corridor.
- 40

**Constraint:** User conflict along this area could be a potential constraint if trail is developed in upland corridor. Existing mountain biking trail users may not favor this interruption.









Existing Conditions: Homestead Road to Jones Creek

- 41

**Opportunity & Constraint:** Homestead Road’s roadway bridge offers approximately 8-feet of overhead clearance, making an underpass a possibility; however permitting and cost are constraints.
- 42

**Constraint:** Homestead Road is a busy roadway with speed limits at 45 miles per hour and bad site lines at the creek crossing.
- 43

**Constraint:** On the north side of Homestead Road, conditions continue to challenge trail crossing. Steep topography and limited land will require grading, tree removal, and cost-impacting structures.
- 44

**Opportunity:** Existing trail network in Calremont and Winmore neighborhoods offer potential for trail tie-ins, offering access to the Bolin Creek Greenway for hundreds of residents in these newly developed neighborhoods.
- 45

**Opportunity:** At the end of the Winmore bikeway, nature trails begin at the UNC property line. When Carolina Commons is built, a greenway trail through the open space will connect trails in Winmore and Lake Hogan Farms.
- 46

**Opportunity:** Lake Hogan Farm’s trail system terminates just before UNC’s property, but could eventually become a conduit for greenway users trying to access Jones Creek.
- 47

**Opportunity:** Existing paved trail leads users to Lake Hogan Farm clubhouse and could potentially become a trail tie-in for the proposed Bolin Creek Greenway.
- 48

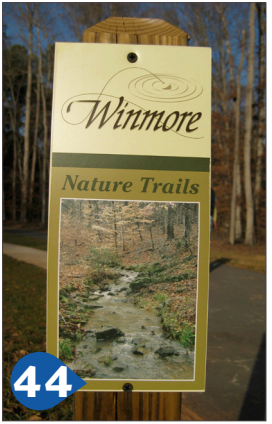
**Constraint:** If Lake Hogan Farm’s trail network will tie Bolin Creek greenway to Jones Creek, a bridge crossing will be necessary, presenting cost and permitting issues.
- 49

**Opportunity:** Trail alignment on the south side of Jones Creek is more practical from a topographical and connection standpoint.
- 50

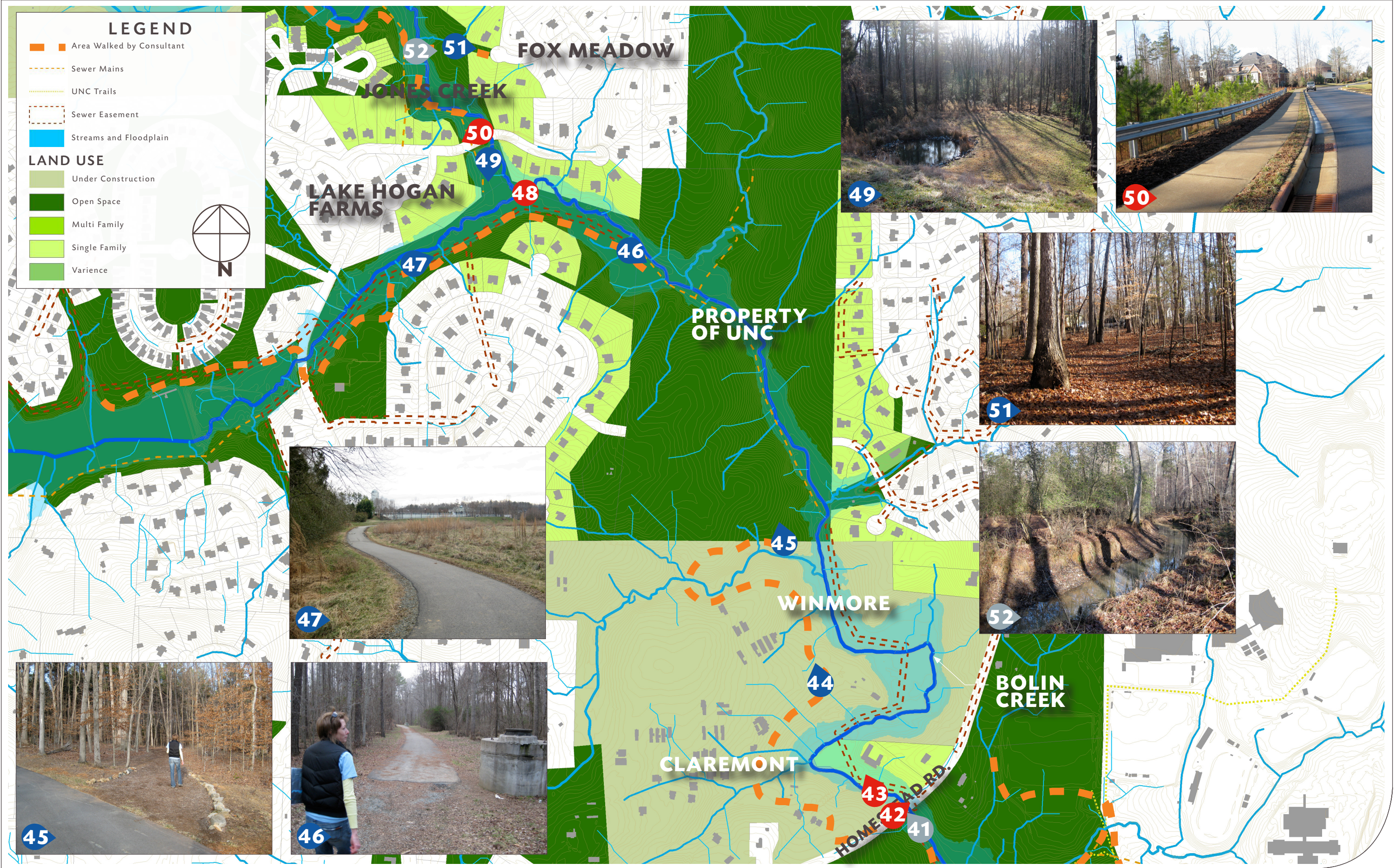
**Constraint:** An at-grade trail crossing will be necessary to cross the creek and road, presenting the possibility of neighborhood resistance and cost constraints.
- 51

**Opportunity:** A foot trail spur up to the Fox Meadow neighborhood could provide access to trail opportunity down at Jones Creek.
- 52

**Opportunity & Constraint:** In order to provide access to Fox Meadow residents, a crossing will be necessary at this location which could present permitting and cost constraints.









Existing Conditions: Jones Creek

- 53

**Opportunity:** Open cleared conditions behind the townhomes in Lake Hogan Farm offer feasible trail conditions on the southern side of Jones Creek.
- 54

**Opportunity & Constraint:** Creek conditions are relatively flat and will still permit south side alignment; however steeper topography gradually overwhelms the corridor, creating conditions that will require grading and retaining walls.
- 55

**Constraint:** Property constraints, costly creek crossings and accessibility make this area a challenge for the Jones Creek corridor.
- 56

**Opportunity & Constraint:** Existing sewer easement continues north to Morris Grove Elementary School, where a future trail will provide off-road transportation opportunity for children; however several tributary crossings will require permits and bridge crossings along the corridor.









